Appendix B-2

SUMMARY OF CURRENT AND PROPOSED STOCKING RATES[1]
BASED ON ACREAGES FROM CAPABILITY MODEL

Land Unit	Allotment	Current Total NFS Primary Grazing Acres – Capability Model	Proposed Total NFS Primary Grazing Acres – Capability Model	Permitted Head Months (HMs[2])	Proposed Head Months (HMs)	Permitted AUMs	Proposed AUMs	Current Stocking Rate in Acres per Cow/Calf Month (Ac/cm)	Proposed Stocking Rate in Acres per Cow/Calf Month (Ac/cm)	Current Stocking Rate in Acres per Animal Unit Month (Ac/AUM)	Proposed Stocking Rate in Acres per Animal Unit Month (Ac/AUM)
North Cave Hills	Pelham-Juberg	1652	1652	887 cm	887 cm	1171 AUMs	1171 AUMs	1.9 Ac/cm	1.9 Ac/cm	1.4 Ac/AUM	1.4 Ac/AUM
	Schleichart	3982	3982	1013 cm	1013 cm	1337 AUMs	1337 AUMs	3.9 Ac/cm	3.9 Ac/cm	3.0 Ac/AUM	3.0 Ac/AUM
	Davis Draw	647	647	640 cm	228 cm	845 AUMs	301 AUMs	1.0 Ac/cm	2.8 Ac/cm	0.8 Ac/AUM	2.1 Ac/AUM
	Jenkins	499	499	110 cm	162 cm	153 AUMs	196 AUMs	4.5 Ac/cm	3.1 Ac/cm	3.3 Ac/AUM	2.5 Ac/AUM
South Cave Hills	John Brown	1557	1557	654 cm	416 cm	863 AUMs	549 AUMs	2.4 Ac/cm	3.7 Ac/cm	1.8 Ac/AUM	2.8 Ac/AUM
	JA Clarkson	1410	1410	681 ym (= 361 cm[3])	681 ym (=361 cm)	477 AUMs	477 AUMs	3.9 Ac/cm	3.9 Ac/cm	3.0 Ac/AUM	3.0 Ac/AUM
	JB Clarkson	1973	1973	793 cm	798 cm	1050 AUMs	1053 AUMs	2.5 Ac/cm	2.5 Ac/cm	1.9 Ac/AUM	1.9 Ac/AUM
	Van Offern	652	652	297 cm	302 cm	392 AUMs	399 AUMs	2.2 Ac/cm	2.2 Ac/cm	1.7 Ac/AUM	1.6 Ac/AUM
East Short Pines	Box Springs	1429	1429	706 bm	745 cm	932 AUMs	932 AUMs	2.0 Ac/cm	2.0 Ac/cm	1.5 Ac/AUM	1.5 Ac/AUM
	Dunn	1166	1166	452 cm[4]	451 cm	597 AUMs	595 AUMs	2.6 Ac/cm	2.6 Ac/cm	2.0 Ac/AUM	2.0 Ac/AUM
	Lone Mountain	631	631	151 cm	151 cm	199 AUMs	199 AUMs	4.2 Ac/cm	4.2 Ac/cm	3.2 Ac/AUM	3.2 Ac/AUM
Totals		15748	15748	6064	5462	8008	7213				

[1] Figures are for National Forest System land only.
[2] Head Months represent the class of livestock and how many can be carried in an area for one month. Head months can represent cow/calf months (cm), yearling months (ym), bison months (bm), etc.
[3] The following calculation was used to arrive at stocking rate unit of 2.8 acres/cow-calf month for comparison purposes in JA Clarkson even though current permit is for yearling months: 681 ym times conversion factor 0.7 = 477 AUMs divided by 1.32 = 361 cm. 1570 suitable acres divided by 420 cm = 3.7 ac/cm.
[4] Use varies by season on Dunn Allotment. The highest stocking figure is reflected in the table.

SUMMARY OF CURRENT AND PROPOSED STOCKING RATES[5]

BASED ON HISTORIC ACREAGES FROM INFRA DATABASE

Land Unit	Allotment	Total NFS Suitable Grazing Acres - INFRA	Permitted Head Months (HMs[6])	Proposed Head Months (HMs)	Permitted AUMs	Proposed AUMs	Current Stocking Rate in Acres per Cow/Calf Month (Ac/cm)	Proposed Stocking Rate in Acres per Cow/Calf Month (Ac/cm)	Current Stocking Rate in Acres per Animal Unit Month (Ac/AUM)	Proposed Stocking Rate in Acres per Animal Unit Month (Ac/AUM)
North Cave Hills	Pelham-Juberg	1842	887 cm	887 cm	1171 AUMs	1171 AUMs	2.1 Ac/cm	2.1 Ac/cm	1.6 Ac/AUM	1.6 Ac/AUM
	Schleichart	4430	1013 cm	1013 cm	1337 AUMs	1337 AUMs	4.4 Ac/cm	4.4 Ac/cm	3.3 Ac/AUM	3.3 Ac/AUM
	Davis Draw	921	640 cm	253 cm	845 AUMs	334 AUMs	1.4 Ac/cm	3.6 Ac/cm	1.1 Ac/AUM	2.8 Ac/AUM
	Jenkins	591	110 cm	110 cm	145 AUMs	145 AUMs	5.4 Ac/cm	5.4 Ac/cm	4.1 Ac/AUM	4.1 Ac/AUM
South Cave Hills	John Brown	1574	654 cm	440 cm	863 AUMs	581 AUMs	2.4 Ac/cm	3.6 Ac/cm	1.8 Ac/AUM	2.7 Ac/AUM
	JA Clarkson	1430	681 ym (= 361 cm[7])	681 ym (=361 cm)	477 AUMs	477 AUMs	4.0 Ac/cm	4.0 Ac/cm	3.0 Ac/AUM	3.0 Ac/AUM
	JB Clarkson	1928	793 cm	793 cm	1050 AUMs	1050 AUMs	2.4 Ac/cm	2.4 Ac/cm	1.8 Ac/AUM	1.8 Ac/AUM
	Van Offern	1004	297 cm	297 cm	392 AUMs	392 AUMs	3.4 Ac/cm	3.4 Ac/cm	2.6 Ac/AUM	2.6 Ac/AUM
East Short Pines	Box Springs	1960	706 bm	706 bm	932 AUMs	932 AUMs	2.8 Ac/cm	2.8 Ac/cm	2.1 Ac/AUM	2.1 Ac/AUM
	Dunn	1485	452 cm[8]	451 cm	597 AUMs	595 AUMs	3.3 Ac/cm	3.3 Ac/cm	2.5 Ac/AUM	2.5 Ac/AUM
	Lone Mountain	563	151 cm	151 cm	199 AUMs	199 AUMs	3.7 Ac/cm	3.7 Ac/cm	2.8 Ac/AUM	2.8 Ac/AUM
Totals		17728	6064	5462	8008	7213				

[5] Figures are for National Forest System land only.
[6] Head Months represent the class of livestock and how many can be carried in an area for one month. Head months can represent cow/calf months (cm), yearling months (ym), bison months (bm), etc.
[7] The following calculation was used to arrive at stocking rate unit of 2.8 acres/cow-calf month for comparison purposes in JA Clarkson even though current permit is for yearling months: 681 ym times conversion factor 0.7 = 477 AUMs divided by 1.32 = 361 cm. 1570 suitable acres divided by 420 cm = 3.7 ac/cm.
[8] Use varies by season on Dunn Allotment. The highest stocking figure is reflected in the table.

Appendix B-2

SUMMARY OF HISTORIC, PRESENT, AND PROPOSED GRAZING USE

<table>
<tr><th>Time Period</th><th colspan="3">Jenkins Allotment</th><th>Notes</th></tr>
<tr><th></th><th>Season</th><th>Head months[9]</th><th>Animal Unit Months</th><th></th></tr>
<tr><td>Pre-1942</td><td>Cow/calf pairs
yearlong</td><td></td><td></td><td>About 40-55 years of season-long use; no deferment</td></tr>
<tr><td>1942-1974</td><td>5/1-3/31
110 c/c for variable days</td><td>NTE[10] 121 cm</td><td>NTE 160 AUMs</td><td>33 years of variable yearlong use.</td></tr>
<tr><td>1975-1976</td><td>7/1-1/20
120 sheep for 204 days</td><td>816 sm</td><td>163 AUMs</td><td>2 years of mid to late use</td></tr>
<tr><td>1977-Present</td><td>9/1-1/31
22 c/c for variable days</td><td>FS NTE 110
Private 610
Total 720 cm</td><td>FS NTE 145
Private 805
Total 950 AUMs</td><td>25 years of one unit deferment yearly- Fall and winter use;</td></tr>
<tr><td>Proposed</td><td>
Jenkins/Davis/John Brown Rotation
Jenkins Middle & West Units
FS Term 71 c/c & 3 bulls
Term Private Off-portion: 113 c/c & 5 bulls
Total head = 192
Davis/John Brown:
FS Term: 184 c/c & 8 bulls
Total head = 192
<table>
<tr><th>Unit</th><th>Year 1</th><th>Year 2</th><th>Year 3</th></tr>
<tr><td>Middle</td><td>6/1- 6/19
(19 days)</td><td>8/5-8/23
(19 days)</td><td>7/16-8/3
(19 days)</td></tr>
<tr><td>West</td><td>6/20-7/13
(24 days)</td><td>8/24-9/16
(24 days)</td><td>8/4-8/27
(24 days)</td></tr>
<tr><td>Davis</td><td>7/14-8/27
(45 days)</td><td>9/17-10/31
(45 days)</td><td>6/1-7/15
(45 days)</td></tr>
<tr><td>John Brown</td><td>8/28-10/31
(65 days)</td><td>6/1-8/4
(65 days)</td><td>8/28-10/31
(65 days)</td></tr>
</table>
Jenkins East Unit
Nov 1 – 2/28 (120 days)
FS Term 14 cows
Term Private Off-portion: 136 cows
Total head = 150
</td><td>
<table>
<tr><th>Unit</th><th>Previous cm</th><th>Proposed cm</th></tr>
<tr><td>Jenkins East</td><td>FS 37
Pvt 204</td><td>FS 56
Pvt 544</td></tr>
<tr><td>Jenkins Middle</td><td>FS 37
Pvt 203</td><td>FS 47
Pvt 87</td></tr>
<tr><td>Jenkins West</td><td>FS 36
Pvt 203</td><td>FS 59
Pvt 83</td></tr>
<tr><td>Jenkins Total[11]</td><td>FS 110
Pvt 610</td><td>FS 162
Pvt 714</td></tr>
<tr><td>Davis</td><td>FS 640</td><td>FS 288</td></tr>
<tr><td>John Brown</td><td>FS 654</td><td>FS 416</td></tr>
</table>
</td><td>
<table>
<tr><th>Unit</th><th>Previous AUMs</th><th>Proposed AUMs</th></tr>
<tr><td>Jenkins East</td><td>FS 56
Pvt 269</td><td>FS 56
Pvt 269</td></tr>
<tr><td>Jenkins Middle</td><td>FS 49
Pvt 268</td><td>FS 71
Pvt 115</td></tr>
<tr><td>Jenkins West</td><td>FS 48
Pvt 268</td><td>FS 69
Pvt 110</td></tr>
<tr><td>Jenkins Total[12]</td><td>FS 153
Pvt 805</td><td>FS 196
Pvt 494</td></tr>
<tr><td>Davis</td><td>FS 654</td><td>FS 380</td></tr>
<tr><td>John Brown</td><td>FS 863</td><td>FS 549</td></tr>
</table>
</td><td>
Add in Jenkins West and Middle units (West-125 cm; Middle-137 cm) with Davis Draw and John Brown for a four-unit rotation. Approx 150 Ac from Brown's purchase is added into the West Unit of the Jenkins Allotment. John Brown to be used alternately early and late every other year, with the remaining three units under a deferred rotation in sequence of early-late-mid treatments. Jenkins East Unit will remain winter use from Nov 1 to Feb 28 (14 cows for 64 hm).

Improve Salting-do not salt within ¼ mile of water sources. Do not salt on National Forest portion of the allotment due to archeological considerations.

FS portion of Jenkins currently meets desired conditions. Monitoring the Allotment for potential effects on vegetation, soils, and archeological resources needs high priority since the season of use is changing from winter to summer on 2 of 3 units. Monitor salting practices.
</td></tr>
</table>

[9] Head months calculated on actual days per month rather than how head months are calculated for billing purposes (30 days/month).
[10] NTE is an acronym for Not to Exceed.
[11] Additional cm/AUMs shown for Jenkins under the proposed action was based on adding 150 acres from Brown's Purchase into the adjacent Jenkins West unit and reconfiguration of the associated private lands within the Jenkins Allotment.
[12] Same as previous footnote.

Time Period	Davis Draw[13]			John Brown			Use Shifts		Notes
	Season	Head months[14]	Animal Unit Months	Season	Head months	Animal Unit Months	Davis Draw	John Brown	
Pre-1941									**About 40 – 50 years of season-long use; no deferment**
1941-1959	5/1-3/31 78 c/c for variable days	NTE[15] 450 cm	NTE 594 AUMs	5/1-3/31 126 c/c for variable days	NTE 786 cm	NTE 1038 AUMs	unknown	unknown	**19 years of season-long use** nearly year-long; **no deferment;** selective re-grazing before and after seed set. Some grazing during winter months.
1960-1965	5/15-10/30 67 c/c for 194 days	433 cm	531 AUMs	5/1-3/31 127 c/c for variable days	NTE 738 cm	NTE 974 AUMs	11 % decrease in AUMs from pre-1960	6% decrease in AUMs from pre-1960	**6 years of season-long use; no deferment;** continual selective re-grazing before and after seed set.
1966-1972	5/1-8/15 187 c/c for 107 days	667 cm	880 AUMs	8/16-11/30 199 c/c for 107 days	710 cm	937 AUMs	**66% increase** in AUMs from 1960-1965	4% decrease in AUMs from 1960-1965	Davis Draw **7 years** of pre-seed set use; **no deferment.** John Brown **7 years of deferment post seed set.**
1973-1976	3/16-4/30 1200 sheep for 45 days	1800 sm	360 AUMs				**60% decrease** in AUMs from 1966-1972		Davis Draw **4 years** pre-seed development and seed set spring sheep use; **no deferment**
1973-1975				8/16-11/30 1600 sheep for variable days	NTE 3400 sm	NTE 680 AUMs			John Brown, **3 more years of deferment with sheep use**
1976				6/1-8/30 1000 sheep for 90 days	3000 sm	600 AUMs			John Brown **1 season pre-seed development and seed set summer sheep use**

[13] Four horses also grazed from 1944 to 1984 for 28 horse months
[14] Head months calculated on actual days per month rather than how head months are calculated for billing purposes (30 days/month).
[15] NTE is an acronym for Not to Exceed.

Appendix B-2

Time Period	Davis Draw[13]			John Brown			Use Shifts		Notes
	Season	Head months	Animal Unit Months	Season	Head months	Animal Unit Months	Davis Draw	John Brown	
1977-Present	Either 5/16-8/31 or 9/1-12/15 181 c/c for 106 days	640 cm	845 AUMs	Either 5/16-8/31 or 9/1-12/15 185 c/c for 106 days	654 cm	863 AUMs	**135% increase** in AUMs from 1973-1976	8% decrease in AUMs from 1966-1972	**25 years of being beyond carrying capacity and under alternate year deferment** until seed-set under a two-unit rotation between Davis Draw and John Brown Units. Increase in AUMS resulted from AMP never being implemented that would allow for the identified increased stocking. The additional private-land acreage was never incorporated into the Allotments, but the stocking rate increased.
Proposed	See Description under Jenkins section of this Table. 184 c/c & 8 bulls for 45 days	288 cm	380 AUMs	See Description under Jenkins section of this Table. 184 c/c & 8 bulls for 65 days	416 cm	549 AUMs	55% decrease from current stocking	36% decrease from current stocking	**Add in Jenkins Middle and West Units (see description under Jenkins section of this table) with Davis Draw and John Brown for a four-unit rotation.** John Brown to be used alternately early and late every other year, with the remaining 3 units under a deferred rotation in sequence of early-late-mid treatments Improve Salting-do not salt within ¼ mile of water sources. **Davis Draw:** • Do not salt within 1/8 mile of West boundary fence • Move into upper part of pasture after 6/1 – move salt and control water to aid in distribution away from lower crested wheat portion. • Reconstruct Jenkins Spring - $2130 • Redirect livestock through the use of a fence structure to discourage use of at-risk hardwood draw near Davis Draw Reservoir (divert further down slope to the southwest). • Relocate beaver in Mid to Upper Davis Draw • Monitor hardwoods near Davis Draw Reservoir, ground cover near West boundary fence, vegetation and soil conditions in Davis lower half, monitor archeological considerations, and salting practices. **John Brown:** • At a minimum, monitor ground cover conditions with photo points. Monitoring salting practices. • Reconstruct John Brown # 2 - $2130 and Johnson Spring - $2130

Time Period	Pelham-Juberg Allotment Season	Head Months	Animal Unit Months	Notes
Pre-1967	Abt. 5/1-10/30 149 c/c pairs			**About 65 – 80 years of season-long use; no deferment**
1967-1972	5/16-11/15 188 c/c for 184 days	1153 cm	1522 AUMs	**5 years of three-unit deferment**.
1973-1975	5/21-11/20 148 c/c for 184 days	908 cm	997 AUMs	**3 years of three-unit deferment**
1976-1994	5/21-10/20 177 c/c for 153 days	903 cm	1192 AUMs	**19 years of 3 pasture deferment**
1995-Present	5/21-10/20 169 c/c for 153 days & 8 bulls for 93 days **Unit** / **Year 1** / **Year 2** / **Year 3** **North**: **Early Season:** 5/21-6/15 and 8/6-8/31 / **Late Season:** 7/11-8/5 and 9/26-10/20 / **Mid-Season:** 6/16-7/10 and 9/1-9/25 **South**: **Mid-Season:** 6/16-7/10 and 9/1-9/25 / **Early Season:** 5/21-6/15 and 8/6-8/31 / **Late Season:** 7/11-8/5 and 9/26-10/20 **Middle**: **Late Season:** 7/11-8/5 and 9/26-10/20 / **Mid-Season:** 6/16-7/10 and 9/1-9/25 / **Early Season:** 5/21-6/15 and 8/6-8/31	887 cm	1171 AUMs	**7 years of 3 pasture deferred twice-over grazing system**; three units, in sequence, were utilized each 20 days, then re-used in sequence for 25 days each with each pasture sequence from year to year going from early to late to mid-season treatments.
Proposed	Same as present - outlined above	887 cm	1171 AUMs	Same as present outlined above with the additional provisions: • To minimize trailing impacts to the watershed and to archeological resources, rock and shrub around the top of Ketchum Draw to deflect current trailing activity. • To minimize impacts to K&R well area during early season treatment, turn off water when the area is wet. • Improve salting practices and do not salt within K&R well area. • Implement 1994 AMP in regard to developing water on top via pipeline via Ketchum source ($10000) • To minimize trailing impacts to the watershed and to archeological resources, rock and shrub around the trail that goes southwest from Riley Spring and place erosion controls (i.e. dips and seeding with natives) on remainder of active trails near Riley Spring to deflect current trailing activity.

Appendix B-2

<table>
<tr><th rowspan="2">Time Period</th><th colspan="3">Schleichart Allotment</th><th rowspan="2">Notes</th></tr>
<tr><th>Season</th><th>Head Months[16]</th><th>Animal Unit Months</th></tr>
<tr><td>Pre-1942</td><td></td><td></td><td></td><td>About 40-55 years of season-long use; no deferment</td></tr>
<tr><td>1942[17]-1974</td><td>5/1-4/30
170 c/c for 365 days</td><td>2040 cm</td><td>2693 AUMs</td><td>33 years yearlong use. No deferment.</td></tr>
<tr><td>1975-1977</td><td>7/11-3/31
230 c/c for 264 days</td><td>2024 cm</td><td>2672 AUMs</td><td>3 years of deferment until after seed-set under one-unit.</td></tr>
<tr><td>1978-Present</td><td>6/1-10/15
Variable #s and Class of Livestock for 182 days

<table>
<tr><th>Unit</th><th>Permit Type</th><th>Year 1</th><th>Year 2</th></tr>
<tr><td>Prairie</td><td>Term Permit</td><td>6/1-8/31 (92 days)
244 yearlings
748 ym or 397 cm
And 9/1-10/15 (45 days) 143 cow/calf
215 cm</td><td>8/1-8/31 (31 days)
400 yearling
413 ym or 219 cm
And 9/1-10/15 (45 days) 102 cow/calf
153 cm</td></tr>
<tr><td></td><td>Private Land Permit</td><td>6/1-8/31 (92 days)
156 yearlings
478 ym or 253 cm
And 9/1-10/15 (45 days) 92 cow/calf
138 cm</td><td>9/1-10/15 (45 days)
396 cow/calf pairs
594 cm</td></tr>
<tr><td>Plateau</td><td>Term Permit</td><td>8/1-10/30 (91 days)
130 cow/calf pairs
394 cm</td><td>6/1-7/31 (61 days)
400 yearlings
813 ym or 431 cm</td></tr>
<tr><td>Summer</td><td>On/Off</td><td>5/16-10/15 NTE 4cm</td><td>5/16-10/15 NTE 4cm</td></tr>
<tr><td>Calving</td><td>On/Off</td><td>4/1-5/31 NTE 3 cm</td><td>4/1-5/31 NTE 3 cm</td></tr>
<tr><td>FS</td><td>Term</td><td>1006 cm</td><td>803 cm</td></tr>
<tr><td>FS</td><td>On/ Off</td><td>7 cm</td><td>7 cm</td></tr>
<tr><td>Pvt</td><td></td><td>391 cm</td><td>594 cm</td></tr>
<tr><td>Total</td><td></td><td>1404 cm</td><td>1404 cm</td></tr>
</table>

<table>
<tr><th>Unit</th><th>Year 1</th><th>Year 2</th></tr>
<tr><td>Prairie-Term</td><td>808 AUMs</td><td>491 AUMs</td></tr>
<tr><td>Prairie-Pvt</td><td>516 AUMs</td><td>784 AUMs</td></tr>
<tr><td>Plateau-Term</td><td>520 AUMs</td><td>569 AUMs</td></tr>
<tr><td>Summer On/Off</td><td>5 AUMs</td><td>5 AUMs</td></tr>
<tr><td>Calving On/Off</td><td>4 AUMs</td><td>4 AUMs</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>FS Term</td><td>1328</td><td>1060</td></tr>
<tr><td>On/Off</td><td>9</td><td>9</td></tr>
<tr><td>Pvt</td><td>516</td><td>784</td></tr>
<tr><td>Total</td><td>1853 AUMs</td><td>1853 AUMs</td></tr>
</table>
</td><td></td><td>24 years of deferment until after seed-set under two-unit rotation every other year.
Both units receive deferment from grazing until after seed set every other year.</td></tr>
</table>

[16] Head months calculated on actual days per month

[17] In addition, five horses grazed between 1942 and 1956.

Schleichart Allotment

Time Period: Proposed

Season

Unit	Permit	Year 1	Year 2	Year 3	Year 4
Schleichart Draw	Term Permit	8/1-8/31 (31 days) 198 yearlings 205 ym or 109 cm	6/1-8/15 (76 days) 248 yearlings 628 ym or 333 cm	9/1-10/15 (45 days) 196 cow/calf 295 cm	7/16-8/31- (47 days) 248 yearlings 389 ym or 206 cm 7/16-8/31 146 cow/calf 229 cm
	Private Land Permit	8/1-8/31 (31 days) 122 yearlings 126 ym or 67 cm	6/1-8/15 (76 days) 152 yearlings 385 ym or 205 cm	9/1-10/15 (45 days) 120 cow/calf 180 cm	7/16-8/31 (47 days)- 152 yearlings 238 ym or 127 cm 9/1-10/15 (45 days) 89 cow/calf 134 cm
Prairie	Term Permit	9/1-10/15 (45 days) 98 cow/calf pairs 147 cm	8/16- 8/31 (16 days) 124 yearlings 66 ym or 35 cm 9/1 –10/15 (45 days) 73 cow/calf 110 cm	8/1-8/31 (31 days) 99 yearlings 102 ym or 54 cm	6/1-7/15 (45 days) 124 yearlings 186 ym or 98 cm
	Private Land Permit	9/1-10/15 (45 days) 218 cow/calf pairs 327 cm	8/16- 8/31 (16 days) 276 yearlings 147 ym or 78 cm 9/1 –10/15 (45 days) 162 cow/calf 243 cm	8/1-8/31 (31 days) 221 yearlings 228 ym or 121 cm	6/1-7/15 (45 days) 276 yearlings 414 ym or 220 cm
Plateau	Term Permit	6/1-7/31 (61 days) 320 yearlings 651 ym or 345 cm	8/1-10/30 (91 days) 130 cow/calf 394 cm	6/1-7/31 (61 days) 320 yearlings 651 ym or 345 cm	8/1-10/30 (91 days) 130 cow/calf 394 cm
Summer	On/Off	5/16-10/15 NTE 4cm	5/16-10/15 NTE 4cm	5/16-10/15 NTE 4cm	5/16-10/15 NTE 4cm
Calving	On/Off	4/1-5/31 NTE 3 cm	4/1-5/31 NTE 3 cm	4/1-5/31 NTE 3 cm	4/1-5/31 NTE 3 cm
FS	Term	601 cm	762 cm	694 cm	927 cm
FS	On/ Off	7 cm	7 cm	7 cm	7 cm
Pvt	Pvt Term	394 cm	526 cm	301 cm	481 cm
Total		1002 cm	1295 cm	1002 cm	1526 cm

6/1-10/15 Variable #s and Class of Livestock for 182 days with an Early – Late - Mid

Head Months[16] | **Animal Unit Months**

Unit	Year 1	Year 2	Year 3	Year 4
Schleichart Draw	FS 144 AUMs Pvt 88 AUMs Total 232 AUMs	FS 440 AUMs Pvt 271 AUMs Total 711 AUMs	FS 389 AUMs Pvt 238 AUMs Total 627 AUMs	FS 574 AUMs Pvt 345 AUMs Total 919 AUMs
Prairie	FS 194 AUMs Pvt 432 AUMs Total 332 AUMs	FS 191 AUMs Pvt 424 AUMs Total 615 AUMs	FS 71 AUMs Pvt 160 AUMs Total 231 AUMs	FS 129 AUMs Pvt 290 AUMs Total 419 AUMs
Plateau-	FS 456 AUMs	FS 520 AUMs	FS 455 AUMs	FS 520 AUMs
Summer On/Off	5 AUMs	5 AUMs	5 AUMs	5 AUMs
Calving On/Off	4 AUMs	4 AUMs	4 AUMs	4 AUMs
FS Term On/Off Pvt Total	**794 \9 \ 520**	**1151 9 695**	**915 on/off 9 398**	**1223 9 635**
Grand Total	**Total 1323 AUMs**	**1855 AUMs**	**1322 AUMs**	**1867 AUMs**

Notes

Same as current with the following additional provisions:

- Split Prairie Unit into two units (Prairie and Schleichart Draw) to allow for a 3 unit deferred rotation (0.4 mile of division fence)
- Replace Alice Springs tank
- Improve salting practices
- Distribute livestock north and west by extending Riley Pass Pipeline to the west- place a tank in section 21 or 28 (West of Plateau). Keep west side water on late and turn eastside water off late.
- Shut down lower tanks and move salt away once used is reached in that area.
- Monitor Plateau & 2 woody draws after 1-2 rotations for vegetation composition changes
- Monitor archeological resources near ponds, and Travis 1&2 Springs 3
- Monitor salting practices

Appendix B-2

JA Clarkson Allotment

Time Period	Season	Head Months[18]	Animal Unit Months	Notes
Pre-1942	Cow/calf (c/c) pairs yearlong			**About 40-55 years of season-long use; no deferment**
1942-1993	11/16-3/31 188 c/c for 135 days	846 cm	1117 AUMs	**51 years of one-unit deferment – early winter grazing**.
1993-1994	8/1 – 10/25 160 c/c for 86 days	459	606	**One-unit deferment**
1995-1996	1995 – 7/15 –10/31 1996 - 6/1 - 9/15 131 c/c for 107 days	467 cm	616 AUMs	**2 years of deferred rotation**
1997-Present	6/1-8/31 222 yearlings for 92 days **Unit / Year 1 / Year 2** South / 6/1-7/15 / 7/16-8/31 North / 7/16-8/31 / 6/1 7/15 On-Off Unit 7/1-2/28 5 c/c for 243 days	JA Clarkson 681 ym On/Off 41 cm	JA Clarkson 477 AUMs On/Off 54 AUMs	**5 years of two unit deferred rotation**
Proposed	Same as present - outlined above	JA Clarkson 681 ym On/Off 41 cm	JA Clarkson 477 AUMs On/Off 54 AUMs	Continue two unit deferred rotation with same stocking, season of use, and class of livestock. • In order to increase ground cover in South Unit turn off water in tanks 1 and 2 until around June 21 and do not salt in the area west of FDR 3113. • Reconstruct J B Clarkson Spring - $2130 • Monitor for increased ground cover in area west of FDR 3113. Monitoring northeast blowout (SW ½ of section 24) for increased ground cover.

[18] Head months calculated on actual days

<table>
<tr><th>Time Period</th><th>JB Clarkson Allotment
Season</th><th>Head Months</th><th>Animal Unit Months</th><th>Notes</th></tr>
<tr><td>Pre-1942</td><td>Cow/calf pairs
yearlong</td><td></td><td></td><td>About 40-55 years of season-long use; no deferment</td></tr>
<tr><td>1942-1993</td><td>Between 5/1-4/30
250-290 c/c for variable days</td><td>NTE[19] 858 cm</td><td>NTE 1133 AUMs</td><td>51 years of yearlong grazing.</td></tr>
<tr><td>1976-1992</td><td>11/16-3/15
225 c/c for 120 days</td><td>900 cm</td><td>1188 AUMs</td><td>17 years of winter grazing</td></tr>
<tr><td>1993-Present</td><td>6/16-10/15
190 c/c for 122 days and 6/25-8/25
10 bulls for 61 days
<table><tr><th>Unit</th><th>Year 1</th><th>Year 2</th></tr><tr><td>West</td><td>6/16-8/25</td><td>8/6-10/15</td></tr><tr><td>East</td><td>8/26-10/15</td><td>6/16-8/5</td></tr></table></td><td>793 cm
(West 450 cm & 10 bull months)
(East 323 cm and 10 bull months)</td><td>1050 AUMs</td><td>8 years of two unit deferred rotation;</td></tr>
<tr><td>Proposed</td><td>6/16-10/15
240 c/c for 122 days and
12 bulls
(Early – Late – Mid treatment sequence to be used)
<table><tr><th>Unit</th><th>Year 1</th><th>Year 2</th><th>Year 3</th></tr><tr><td>McKenzie</td><td>6/16-6/25</td><td>7/6-7/15</td><td>6/26-7/5</td></tr><tr><td>East</td><td>6/26-7/5</td><td>6/16-6/25</td><td>7/6-7/15</td></tr><tr><td>West</td><td>7/6-7/15</td><td>6/26-7/5</td><td>6/16-6/25</td></tr><tr><td>McKenzie</td><td>7/16-7/31</td><td>10/1-10/15</td><td>8/31-9/15</td></tr><tr><td>East</td><td>8/1-8/31</td><td>7/16-8/15</td><td>9/16-10/15</td></tr><tr><td>West</td><td>9/1-10/15</td><td>8/16-9/30</td><td>7/16-8/30</td></tr></table></td><td>JB Clarkson 798 cm
(West 462 cm)
(East 336 cm)
Van Offern - McKenzie 210 cm

Total 3-Unit 1008 cm</td><td>JB Clarkson 1053 cm
(West 610 cm)
(East 443 cm)
Van Offern - McKenzie 277 cm

Total 3-Unit 1330 AUMs</td><td>Same as current with the following additional provisions:

• Add McKenzie Unit of Van Offern Allotment for a modified three unit deferred/time controlled rotation (move on use level commensurate with growth rate: Rotation and timing sequence follows: Unit 1 for 10 days, Unit 2 for 10 days, Unit 3 for 10 days, then move back to Units 1, 2 & 3 for 30-45 days each, depending on the Unit.
• Turn off water in tank #1 until mid June and no salting in the area.
• Extend overflow of tank #1 to the east
• Extend overflow of Johnson #2 away from the tank
• Reconstruct Johnny Pocket #2 - $1200
• Abandon and remove Lone Canyon Spring
• Monitor West unit for increased ground cover and improved composition</td></tr>
</table>

[19] NTE is an acronym for Not to Exceed

Appendix B-2

<table>
<tr><th rowspan="2">Time Period</th><th colspan="3">Van Offern Allotment</th><th rowspan="2">Notes</th></tr>
<tr><th>Season</th><th>Head Months</th><th>Animal Unit Months</th></tr>
<tr><td>Pre-1942</td><td></td><td></td><td></td><td>About 40-55 years of season-long use; no deferment</td></tr>
<tr><td>1942-1963</td><td>5/1-3/31
100 c/c for variable days</td><td>NTE 438 cm</td><td>NTE 578 AUMs</td><td>22 years of nearly yearlong use. No deferment.</td></tr>
<tr><td>1964-1976</td><td>6/16-5/31
220 c/c for variable days</td><td>NTE 438 cm</td><td>NTE 578 AUMs</td><td>13 years of nearly yearlong use. No deferment.</td></tr>
<tr><td>1977-1992</td><td>6/16-12/15
45 c/c for 183 days (CG & UM)
and
1/1-3/31
56 c/c for 90 days (LM)</td><td>443 cm</td><td>585 AUMs</td><td>17 years of deferment until after seed-set under two-unit rotation every other year (Casper Gulch & Upper McKenzie). 17 years of Lower McKenzie being utilized during the winter months</td></tr>
<tr><td>1993-Present</td><td>6/16-11/15
57 c/c for 153 days & 3 bulls for 61 days
<table><tr><th>Unit</th><th>Year 1</th><th>Year 2</th></tr><tr><td>Casper Gulch</td><td>6/16-7/31</td><td>8/1-11/15</td></tr><tr><td>McKenzie</td><td>8/1-11/15</td><td>6/16-7/31</td></tr></table></td><td>291 cm & 6 cm for 297 total (McKenzie High end - 203 cm 3 bull months & Low end – 92 cm)
(Casper Gulch High end - 203 cm 3 bull months& Low end – 92 cm)</td><td>392 AUMs</td><td>9 years of deferment until after seed-set under two-unit rotation every other year.</td></tr>
<tr><td>Proposed</td><td>Alternate Every other Year
57 c/c & 3 bulls for 46 days
<table><tr><th>Unit</th><th>Year 1</th><th>Year 2</th></tr><tr><td>Casper Gulch</td><td>6/16-7/31</td><td>9/1-10/15</td></tr></table></td><td>92 cm</td><td>121 AUMs</td><td>Van Offern McKenzie Unit would be incorporated into a three unit rotation with the JB Clarkson Allotment and Van Offern Casper Unit will be used either Early or Late
Reconstruct McKenzie Spring - $1200
Reconstruct Casper Gulch Spring - $1200
Monitor Hardwoods; potential for more intensive treatment
Lower half of McKenzie Gulch is a high use area and not a very resilient site.</td></tr>
</table>

Time Period	Box Springs Allotment Season	Head months[20]	Animal Unit Months	Notes
Pre-1941				**About 75 – 85 years of season-long use; no deferment**
1941-1960	5/1-3/31 107 c/c for variable days	NTE 720 cm	950 AUMs	**20 years year-long use. No deferment.**
1961-1973	11/21-3/20 175 c/c for 120 days	700 cm	924 AUMs	**13 years winter use.**
1974-1996	10/1-10/25 and 12/1-3/20 175 c/c for 135 days	788cm	1040 AUMs	**23 years winter use.**
1997-Present	10/1-10/31 and 12/1-2/28 175 bison for 121 days **Unit** / **Year 1** / **Year 2** East 90 days: 12/1-2/28 / 12/1-2/28 West 31 days: 10/1-10/31 / 10/1-10/31	706 bm (East 525 bm West 181 bm)	932 AUMs[21]	**14 years of winter use**.
Proposed	140 cow/calf pair 154 days & 6 bulls 31 days **Unit** / **Year 1** / **Year 2** West 140 c/c 6 bulls: 6/1-7/24 / 6/20-7/20 / 9/7-10/31 East 140 c/c 6 bulls: 7/25-10/31 / 7/21-8/20 / 6/1-9/6 / 6/20-8/20	730 cm (East 473 cm West 258 cm)	964 AUMs	Changes from winter use with bison to deferred rotation summer/fall use with cow/calf pair. Unit capacity based on primary range proration, whereas the previous bison unit split was not tested for validity of stocking vs. capacity). The following are additional provisions: • Remove old tank and feeder at Box Sp 3 • Pipe from Box Sp 2 to the east and remove old tank $2750 • Reconstruct Fox Spring $1200 • Fox Well –reconstruct @ $17/ft (est. $3500) • Monitor at risk hardwoods • Remove bison portion of fence to the height of a standard stock fence allow wildlife passage. East Unit is a high use area and not a very resilient site.

[20] Head months calculated on actual days
[21] Used 1.32 conversion factor from bison months to AUMs

Appendix B-2

Time Period	Lone Mountain Allotment			Notes
	Season	Head months[22]	Animal Unit Months	
Pre-1941				**About 40 – 50 years of season-long use; no deferment**
1941-1961	11/1-3/31 186 sheep[23] for 151 days	936 sm	187 AUMs	**21 years of season-long use** during dormant months.
1962-1967	7/1-10/31 186 sheep for 123 days	763 sm	153 AUMs	**6 years mid to late-season use - deferment**
1968	6/1-10/31 29 c/c for 153 days	148 cm	195 AUMs	**1 year of no deferment; seasonlong use**
1969-1972	6/1-10/31 186 sheep for 153 days	949 sm	190 AUMs	**5 years of no deferment; seasonlong use**
1973-1976	7/1-10/31 186 sheep for 123 days	763 sm	153 AUMs	**4 years of no deferment; seasonlong use**
1977-Present	7/16 – 10/31 42 c/c for 108 days	151 cm	199 AUMs	**25 years of late season use after seed shatter - deferment**
Proposed	Same as present – outlined above	151 cm	199 AUMs	Same as current with the following additional provisions: Monitor at risk hardwood stands to determine trend Lone Mtn Pipeline tank on arch. Site – needs review (tank was surveyed, staked, and installed about 4-5 years ago)

[22] Head months calculated on actual days
[23] On-off for 750 sheep with 23% on National Forest

Time Period	Dunn Allotment			Notes
	Season	Head months	Animal Unit Months	
Pre-1949	6/1-3/31 980-1070 sheep for 200 days	6533-7133 sm	1307-2853 AUMs	Combined with present day Box Spring Allotment. **About 50 years of season-long use; no deferment**
1949-1950	5/1-10/31 83 c/c for 184 days	509 cm	672 AUMs	Combined with present day Box Spring Allotment. Conversion from sheep to cattle
1951-1963	5/1-10/31 74 c/c for 184 days	454 cm	599 AUMs	Separated from Box Spring Allotment. **14 years season-long use. No deferment.**
1966-1975	5/16-10/31 80 c/c for 169 days	451 cm	595 AUMs	**10 years season-long use. No deferment.**
1976-1987	5/16-9/30 99 c/c for 138 days	455 cm	601 AUMs	**12 years season-long use. No deferment.**
1988-Present	Alternate 6/1-10/15 and 7/15-10/31 every other year 99 c/c alternating 137 days and 108 days every other season	Alternate years 452 cm and 356 cm	Alternate years 597 AUMs and 470 AUMs	**14 years of some deferment** until after seed-set under one-unit. Close to season-long grazing.
Proposed	6/1-7/31 and 8/1-10/31 every other year 147 c/c alternating 61 days and 92 days every other season	Alternate years 451 cm and 299 cm	Alternate years 595 AUMs and 395 AUMs	Implements more of a deferment, with changes in alternating seasons to reduce selective re-grazing that was occurring under nearly season-long conditions. • To improve the hardwood conditions, change season of rotation so that two late treatments in sequential years do not occur. • Abandon and Remove Dunn Ranch Sp • Assure distribution is away from SW (Section 15) corner during spring turnout and fall take off • To decrease erosion, Stabilize gullies created from trailing via watershed treatment design • Remove ponderosa from hardwood stands • Reconstruct Dunn Well Pipeline - $5000; check feasibility to relocate tank to the West